

AMENDMENT AND PRESENTATION OF CLAIMS

Please replace all prior claims in the present application with the following claims.

1. (Currently Amended) A surface-coated cutting tool comprising:
a coating layer on a substrate surface having:
an inner layer formed on a substrate; and
an outermost layer formed over said inner layer;
wherein said inner layer is formed from a compound formed from a first element and a second element, said first element being at least one element selected from a group consisting of a periodic table group IVa, Va, VIa metal, Al, Si, and B, and said second element being at least one element selected from a group consisting of B, C, N, and O, except, in said inner layer, a film formed solely from B is excluded;
wherein said outermost layer is formed from aluminum nitride or aluminum carbonitride, said outermost layer containing more than 0 and no more than 0.5 atomic percent chlorine, and said outermost layer is formed by thermal CVD using hydrogen chloride as a reaction gas; and
wherein said outermost layer is formed with a film thickness that is no more than 1/2 a total film thickness of said inner layer .
2. (Original) A surface-coated cutting tool according to claim 1 wherein said outermost layer further includes oxygen.
3. (Original) A surface-coated cutting tool according to claim 1 wherein said inner layer includes a film formed from a compound containing Ti.

4. (Original) A surface-coated cutting tool according to claim 3 wherein said inner layer includes a film formed from TiCN having a columnar structure.

5. (Previously Presented) A surface-coated cutting tool according to claim 4 wherein said film formed from TiCN has a columnar structure with an aspect ratio of at least 3, where an index of orientation TC(220), TC(311), or TC(422) of a crystal face (220), crystal face (311), or crystal face (422) respectively is a maximum index of orientation.

6. (Cancelled)

7. (Original) A surface-coated cutting tool according to claim 1 wherein a film hardness of said outermost layer is lower than a hardness of at least one film forming said inner layer.

8. (Original) A surface-coated cutting tool according to claim 1 wherein a surface roughness of a section of said outermost layer near a ridge line of a cutting edge has an Rmax relative to a 5 micron reference length of no more than 1.3 microns, where roughness is measured by observing a cross-section of said cutting tool.

9. (Currently Amended) A surface-coated cutting tool according to claim 1 wherein said substrate is formed from a ~~tungsten carbide-based cemented carbide~~, cermet, high-speed steel, ceramic, a cubic boron nitride sintered body, or a silicon nitride sintered body.

10. (Previously Presented) A surface-coated cutting tool according to claim 1 wherein said surface-coated cutting tool is a throw-away insert, a drill, or an end mill.

11. (Previously Presented) A surface-coated cutting tool according to claim 1 wherein:
said surface-coated cutting tool is a throw-away insert; and

said outermost layer has a film thickness of at least 0.03 microns and no more than 10 microns, and said coating layer has a total film thickness of at least 0.1 microns and no more than 30 microns.

12. (Previously Presented) A surface-coated cutting tool according to claim 1 wherein:
said surface-coated cutting tool is a drill or an end mill; and

said outermost layer has a film thickness of at least 0.03 microns and no more than 8 microns, and said coating layer has a total film thickness of at least 0.1 microns and no more than 24 microns.